novita

BG90/BG93

Instruction and Installation Manual

Table of Contents

Safety Instructions	2 ~ 6
Operational Instructions	7
Name of components	8 ~ 9
Accessories	9
Installation Instructions	10 ~ 12
Grounding Instructions	13
Things to be checked after installation	14
How to Use Basic Features	15
How to Use Additional Features	16 ~ 19
How to take care of this Product	20 ~ 23
Prevention of Freezing	24 ~ 25
Flickering Warning Signals	25
Troubleshooting	26
Specification	27
Important Safeguards	28

Safety Instructions

Be sure to observe the following

- Be sure to read the following safety instructions carefully and use the product only as instructed in this manual to prevent bodily injuries and/or property damage which might happen while using this product.
- Thoroughly understand each of the following symbols (marks and graphical signs), read all instructions and precautions and follow them.

⚠ WARNING	Failure to observe any of the following might result in critical injury or death.	⚠ CAUTION	Failure to observe any of the following might result in minor injury and/or product damage.
Strictly prohibited.		Be sure to unplug the electric power plug.	
Never disassemble or modify this product.		Do not place in or drop into water.	
Proper grounding required to prevent electric shock.		Things that have to be observed.	
Never use wet hands.			

∗1 : Serious injury includes loss of eyesight, severe wound, burn (high, low temperature), electric shock, bone fracture, poisoning, etc. leaving aftereffect and requiring hospitalization or regular hospital visit for a long time for recovery
∗2 : Injury means minor wound, burn or electric shock that does not require hospitalization or regular hospital visit for a long time for recovery
∗3 : Property damage refers to extensive damage relating to house, furniture, livestock or pet, etc.

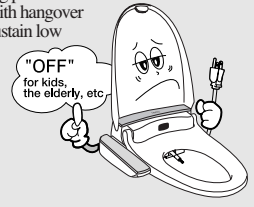
Exemption from liability

- Manufacturer takes no responsibility for any damages resulting from natural disasters such as earthquakes, lightening and wind damage and flooding, fires not caused by the manufacturer or the bidet product covered by this manual, other accidents, consumer mistakes and/or misuse and abuse of the product or the use of the product under abnormal condition.
- Manufacturer takes no responsibility for any incidental damages resulting from the use of the product or inability to use the product (lost profits or suspension of business, etc.).
- Manufacturer takes no responsibility for any damages resulting from the failure to observe the contents contained in this manual.

⚠ WARNING

When a child, the elderly or the invalid uses the product, the seat temperature adjustment button should be set to OFF position.

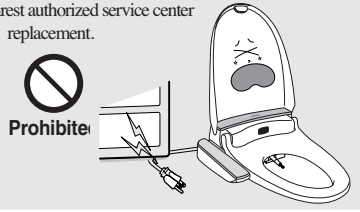
Kids, the elderly, people with sensitive skin, people incapable of adjusting temperature on their own, people who have taken sleep-inducing medicine (sleeping pill or cold medicine, etc.) or people with hangover or severe weariness may sustain low temperature burn or injury.



CAUTION

Do not scratch, crack, bend forcibly, twist or pull the electrical power cord. Do not apply heat to, or place heavy objects on, the cord.

Damaged power cord may lead to fire or electrical shock. Do not attempt to replace a damaged power cord on your own. Contact a nearest authorized service center for replacement.



Use electric wall outlet independently which is suitable for AC 120V, rating over 7 Ampere.

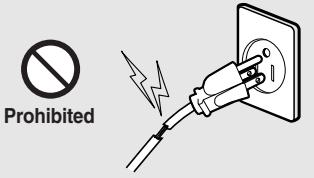
Use of extension cord or sharing an outlet with other product may lead to fire of electric shock.

Never disassemble, repair or modify the product.

Doing so may cause fire, electrical shock or injury. Contact a nearest authorized service center for repair.

Never use a damaged power cord, damaged power plug, or a loose electrical outlet.

Doing so may result in fire, electric shock, short circuit, smoke generation or ignition.

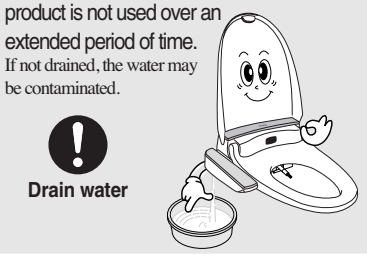


Power plug should be plugged into the wall outlet securely.

Failure to do so may result in electric short circuit, electric shock, smoke generation or ignition.

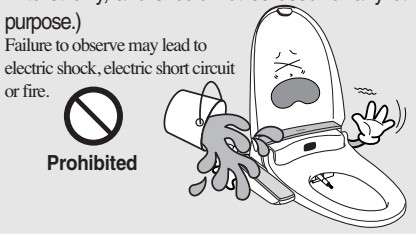
Disconnect the power plug from the wall outlet and drain water from water tank in the case that the product is not used over an extended period of time.

If not drained, the water may be contaminated.



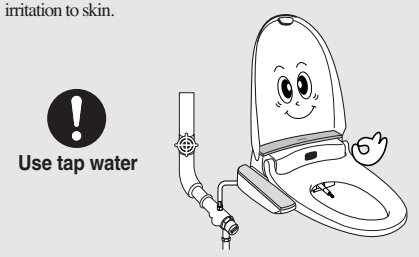
Do not water the product. Do not install the product in wet or damp places. (This product is intended for use in toilet only, and should not be used for any other purpose.)

Failure to observe may lead to electric shock, electric short circuit or fire.



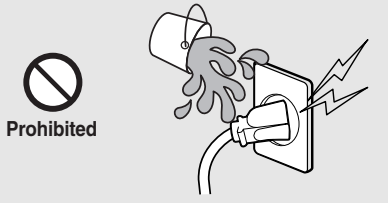
Use tap water or portable water only.

Using recycled water or industrial water may cause cystitis or irritation to skin.



Do not spray water or wastewater into the unit or power plug.

Doing so may cause fire or electric shock.

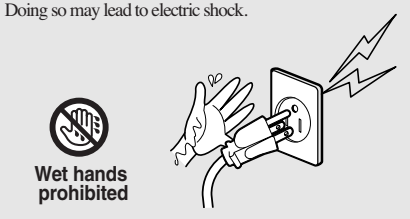


Keep the power plug dust-free by removing the dust using a dry cloth.

Failure to do so may cause a fire.

When plugging and unplugging the power plug, never use wet hands.

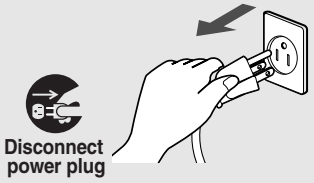
Doing so may lead to electric shock.



(continued)

When cleaning the product, always disconnect the power plug from the wall outlet.

Failure to do so may result in electric shock or injury.

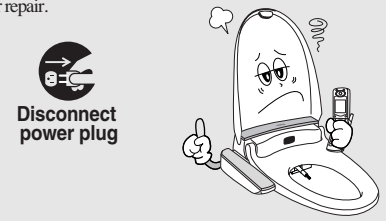


Discontinue using the product in case of malfunctioning.

Disconnect the power plug from the electrical outlet and close the water valve if any of the following occurs;

- Water leaks from either the main unit or the water pipe.
- The product makes odd noise or produces unpleasant odor.
- Abnormal heat from the main body.
- Crack or break on main body.
- Fuming from main body.

Continuing use of a malfunctioning product (as mentioned above) may lead to fire, electric shock or water leakage. Please contact the dealer or an authorized service centre for repair.



Safety Precaution

⚠ CAUTION

Please do not use the product for other usage than described in this user manual.

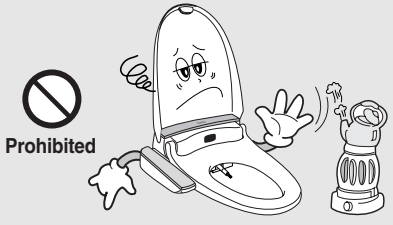
Failure to do so may lead to fire, electric shock or injury.

Grab the plug-knob for unplugging the power plug.

Failure to do so may result in electric shock, electric short circuit or fire.

Do not put stove, heater, or cigarettes nearby the product.

Doing so may lead to fire, discoloration or malfunctioning.



Do not rest against the seat cover when sitting on the seat.

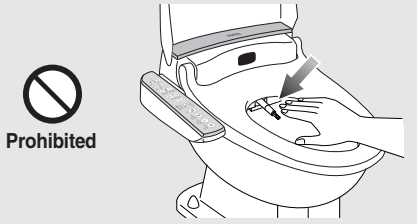
This may cause the seat cover to break, which may further lead to the back injury if the user loses his/her balance and tumbles over.

Do not insert fingers into or block off the warm air blower outlet.

Doing so may result in burn or injury.

Do not insert fingers or other objects into warm air outlet or nozzle gate, nor spray water.

Doing so may lead to electric shock or product mal-functioning.

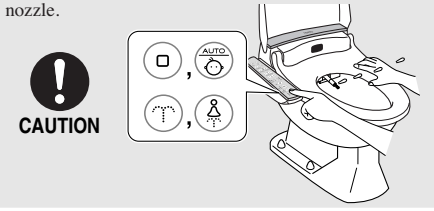


Do not let a child alone use this product. He/she may fall into the toilet bowl.

The child needs to be attended by an adult.

Always press the control panel button while the seat is occupied.

Otherwise, the person standing by the product or the floor may get wet due to warm water coming out of nozzle.



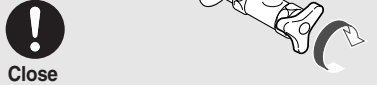
Shut off the water valve before removing the filtering mesh for cleaning.

Make sure to fasten it up after the cleaning.

Failure to observe may lead to water leakage.

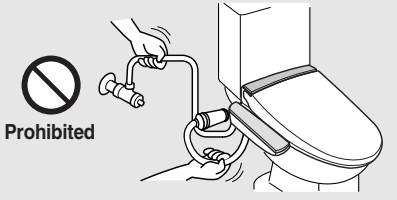
Failure to observe may lead to water leakage.

(See page 20 for cleaning of the filtering mesh.)



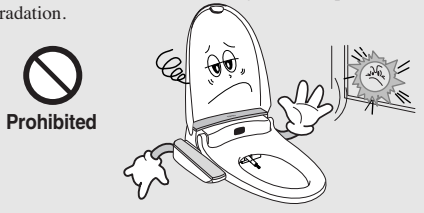
Do not pull forcibly or apply excessive force to the water feed hose.

Doing so may cause water to leak.



Select the installation place out of the direct sun ray(ultraviolet).

Doing so may result in worsening of product surface such as discoloration or fading, and/or product degradation.



Do not stand on, or give a shock to, the main unit.

Doing so may lead to deformation or breakage of the product, further resulting in bodily injury.

(continued)

Never use acidic or alkaline bathroom detergent, benzene, thinner, cleanser or nylon scrubber when cleaning the product.
Doing so may damage plastic or metallic parts.

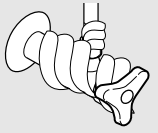
Prohibited

Do not place or drop the product in/into water.
It may lead to a product failure or electric shock.

Never place in water

Keep warm

Freezing may break pipes, and may cause leakage. When freezing is highly expected, drain the water from the water tank.



CAUTION

The user of this bidet product should not weigh more than 264.5 lbs(120kg).

CAUTION

Any person having a female-specific disorder, skin disorder or disease in the sensitive private area should consult a physician before using this product.
This product is not medical equipment.

CAUTION

Water pressure setting should be positioned to 'Low' or 'Very Low' when the product is used by a person having sensitive skin or a disease in the sensitive private area, the elderly, the invalid or the disabled.
Failure to do so may lead to damage to skin.

CAUTION for usage

Please use the genuine water filter only.
We will not take any responsibility for the problems resulting from the use of other filters.

CAUTION for usage

In the event that the product is reinstalled at different location (due to movement or relocation of bidet product), close water valve, disconnect power plug from electrical outlet, and completely drain and remove water from the main unit before packaging the product for movement.

- If the product is moved with some water inside the main unit, water leakage from water tank may cause electric shock, fire or product failure.
- Please refer to page 28 of this manual concerning how to remove water from the main unit.
- Please contact the dealer or retailer where the product was purchased for further information.

Operational Instructions

Water supply to the toilet water tank may be interrupted if the ball-tap connecting screw is tightened, when disassembling the water pipe or connecting water feed hose.
Do not touch ball-tap connecting screw.

Small amount of water may run out of nozzle occasionally. It does not indicate abnormality. This occurs due to the expansion of water that gets warm in the water tank.
If water runs continuously in an unusual manner, shut off the valve, unplug the power cord and call the service centre or the dealer.

Have a specialized plumber install the hot water feed pipe and the flush valve in the cold area.
Contact specialized technician.
Keep the unused water pipes for future use.

No cleansing water will be supplied from nozzle if water pressure control is set to "low" in the area of low tap water pressure.
Please set the water pressure control to "high".

Do not open/close the toilet seat and cover using excessive force.
Doing so may lead to breakage or malfunction.

Do not press the buttons on the control panel too hard when operating the product.
Doing so may lead to a failure.

Water may keep running out of nozzle after cleansing. It does not indicate abnormality. It is residual water from the inside pipes.
It will stop after 2 minutes.

Cleansing will stop automatically by the timer after about 90 seconds of use.
Press the button again if you wish to further use.

Drain water completely out of warm water tank to prevent possible water leakage and unplug the power cord, when the product is not in use for a long time.

Keep clean the nozzle and warm air blower outlet against the possible stain from urine by a male user.
It may cause malfunction.

Wipe up the main unit with a soft cloth when it's dirty.
Clean with a diluted neutral detergent using soft cloth and then wipe off with the remaining with damp cloth if it is excessively dirty.

When the product is operated while toilet seat is not occupied as in the following cases, be careful as water may splash:
- When a child intentionally press a button,
- When a button is pressed during cleaning,
- When an object is placed on the control panel.

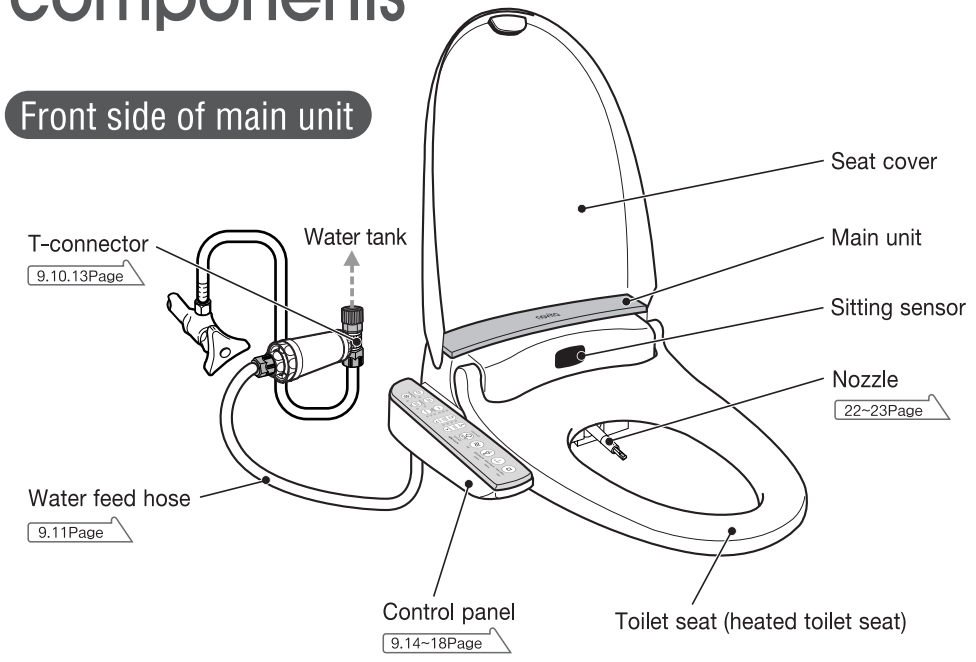
Keep clean the nozzle against the contamination.
It may cause bad odor or malfunction.

Deodorization will stop automatically after 15 minutes of continuous use.
Please stand up and sit again for longer use.
The main purpose of deodorization is to remove the odor in toilet bowl. It's not for the whole bathroom.

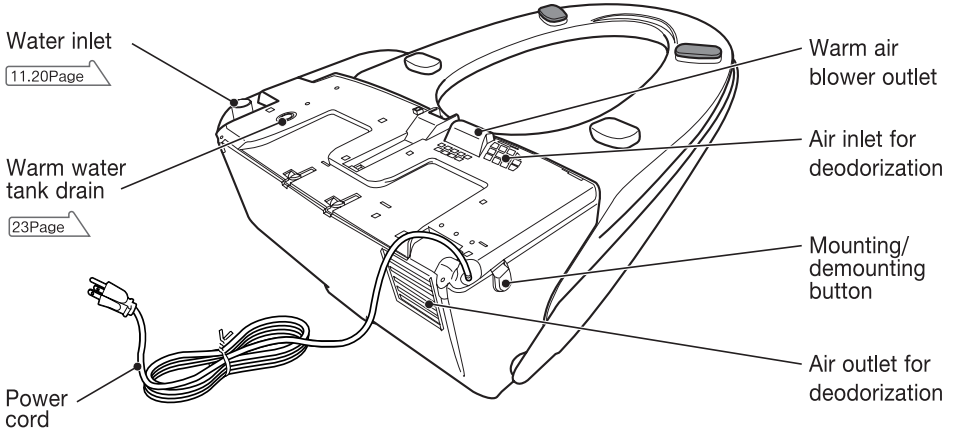
Name of components

The number in the mark indicate the number of pages where the terms shall appear.

Front side of main unit

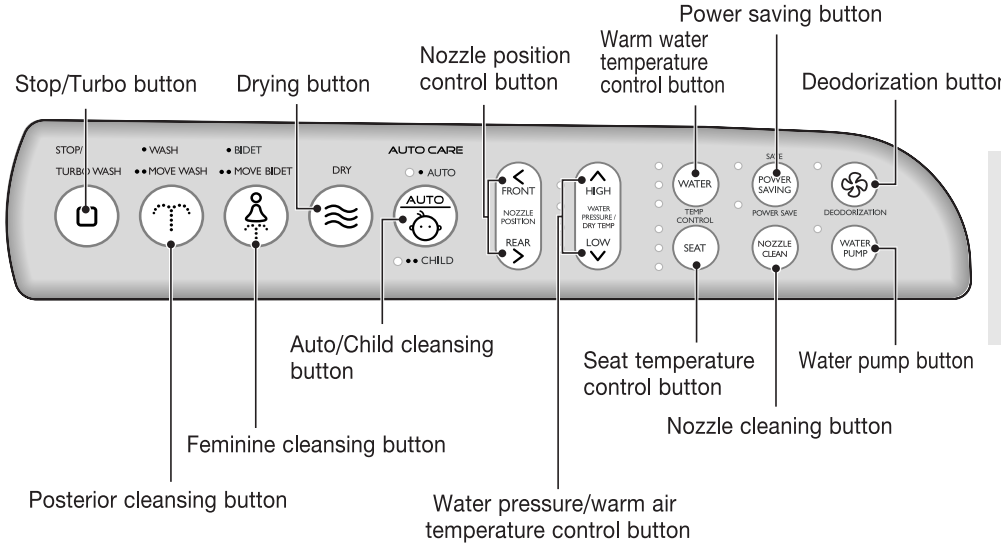


Rear side of main unit



Control Panel

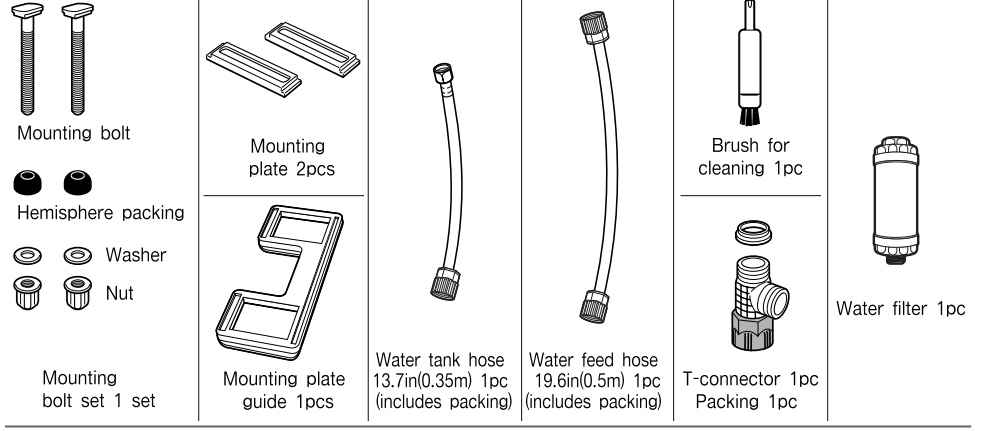
※ **Control panel layout may vary depending on the models.**



Before use

Accessories

Items required for installation



Installation Instruction

1 Close water valve.

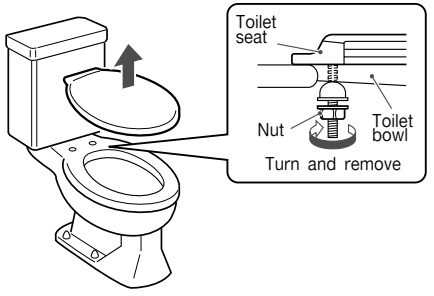
- Check if any appliance is used with water before closing the valve.
- Close the valve by turning the handle or using a screwdriver.

Note
- Check any nearby tap water if water dose not run after the valve is closed.

2 Remove the existing toilet seat.

- Remove the seat by untightening the nut using a tool.

Note
- Keep the removed seat, seat cover, nuts, etc. in the safe place for future use just in case.



3 Attach T-connector valve.

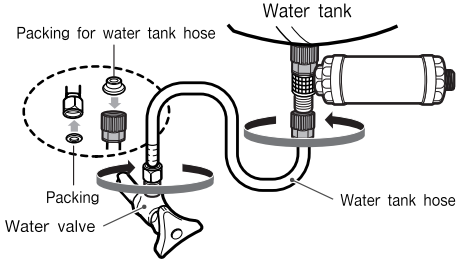
■ **Standard water valve, inner-screw type water valve**

1. Connect the T-connector to the toilet water tank.

CAUTION
- Over-tightening by using excessive force may lead to a breakage.

2. Connect the T-connector and the water valve with the water tank hose.

CAUTION
- Water leakage may occur if the packing is not used when connecting.
- Hold the T-connector valve firmly when connecting the hose so that the T-connector valve does not rotate.



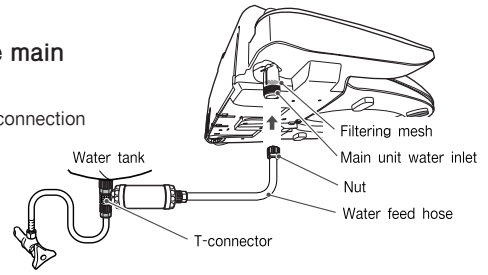
3. Connect the water filter to the T-connector.
- Make sure and check before connecting the hose that there is a packing in hose joint.
- Connect the water feed hose to T-connector, which is connected with the water valve.

4. Connect the water feed hose to the water filter.
- Make sure and check before connecting the hose that there is a packing in hose joint.

4 Connect the water feed hose.

Connect the water feed hose to the main unit.

※Check if there is the packing in the hose connection before connecting.



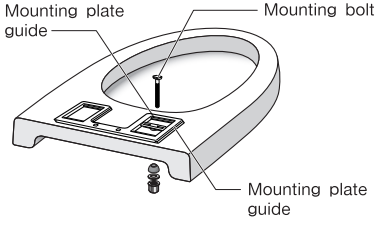
5 Install the main unit.

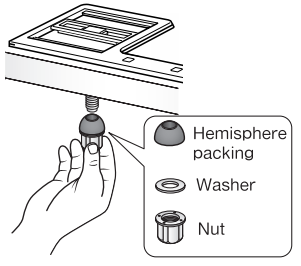
1. Remove hemisphere packing, washer and nut from mounting bolt, and insert the mounting bolt to the mounting plate.

2. The head of mounting bolt should come in direct contact with the mounting plate.

3. Insert mounting bolts to the toilet bowl holes while aligning the bolts to the holes, and connect hemisphere packing, washer and nut in such order.

Note
- When the product is aged over time, screw bolt may get loose. In such case, tighten the nut again.





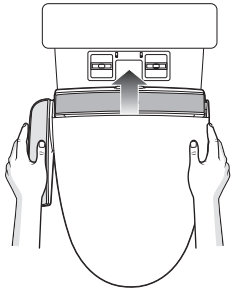
CAUTION
① The distance between the bolts can be adjusted in the range from 5.1 inch(130mm) to 7.8 inch(200mm) depending on the hole locations on the toilet bowl.

② Carefully align the center of main unit to that of toilet bowl when attaching and fixing the main unit.

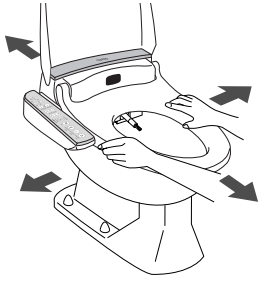
③ Use the wrench enclosed with bidet when tightening.

Installation Instruction

4. Align the center of main unit to the center of the plate guide and push all the way until ‘click’ sounds.



5. Check if or not the main unit easily comes off by moving the unit in four different directions.



- When the main unit is installed to toilet bowl, it may be a little movable, which does not indicate abnormality. This happens as the main unit removable type.

Note

- The main unit may become heavily movable if used over an extended period of time due to loose bolts. Fully tighten the bolt if that happens.

Grounding Instructions

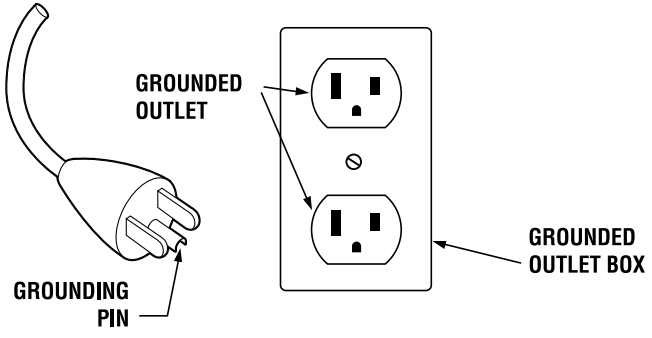
This product should be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded.

DANGER - Improper use of the grounding plug can result in a risk of electric shock.

If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded.

If it is necessary to use an extension cord, use only a three wire extension cord that has a three-blade grounding plug, and a three-slot receptacle that will accept the plug on the product.
Replace or repair a damaged cord.



Things to be checked after installation

Check for water leakage

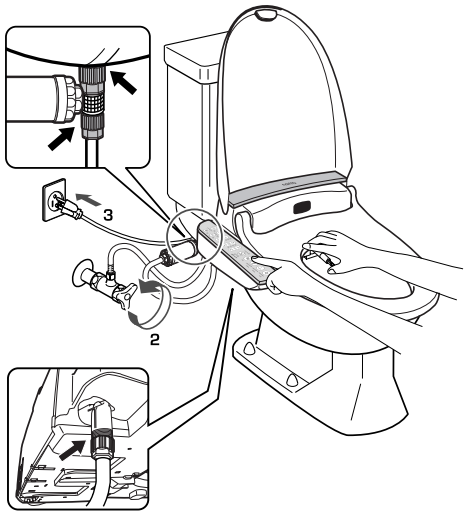
Check the water leakage from any of the pipe connection after installation.

Inspection points

- Check if packing was all used in the installation. If there is any packing left, check where it is missing, disassemble the joint where it is missing and properly use it.
- Check if there is any loose connection or joint before feeding water.

1. Open water valve.
2. Open water feed valve and check if water leaks from any pipe joints.

➡ : Inspection areas



If water leaks

1. Close water valve.
2. Disassemble the joint where water is leaking and connect properly again.

Note

- If water continues leaking, close water valve and contact a nearest authorized service center.

Operational Check

Check the operation of the product in the following order.

1. Open water valve (Applicable only when closed).

2. Open water feed valve with a blade type screwdriver (Use hands for handle type.)
   - Check if water leaks from pipe, water tank hose or water feed hose joints. If water leaks, close the water feed valve, separate the valve and check if rubber packing is inserted. If not, insert the packing and reassemble the water feed valve.

3. Connect the power plug to the wall outlet.
   - Nozzle extends and retracts once, and the control panel lamps keep blinking (at initial operation.)

4. Press (⎍) button on the control panel.
   - Water pressure/Dry Air" lamp goes off when the tank is full of water, and Seat Temperature, Water Temperature and Water Pressure are set to Low respectively.
   - Wait until cleansing water gets warm. (It takes about 5 minutes.)
   - Check if the seat gets warm, too.

5. Approach hands to sitting sensor (within 1.9 inch(5 cm)) so that it may be activated..

6. If the tank is full of water, press (⎍) button one more time and check if the posterior cleansing is correctly operated.
   - Check if nozzle extends and discharges warm water. (Cover up the nozzle to prevent water from spraying outside.)

7. After confirming that warm water is coming from the nozzle, press stop button or separate the palms from the sitting sensor so that the operation may be stopped.
   - Cleansing operation stops and nozzle retracts.

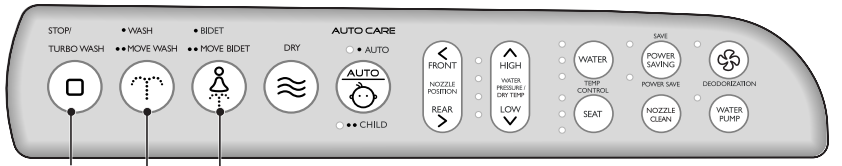
How to use basic features

⚠ WARNING

CAUTION

Set the Seat Temp Control Button to "Off" or "Low" if the product is used by the following person;
Young children, the aged or users incapable of adequately setting the temperature,
- People with sensitive skin and/or skin irritation,
- People having taken sleep-inducing medicine such as sleeping pill or cold medicine,
- People suffering from hangover or severe physical fatigue.

Failure to do so may lead to the low temperature burn or injury.



Stop button
Posterior/Oscillating cleansing button
Feminine/Oscillating Feminine cleansing button

Posterior/Feminine Cleansing

1 Sit on the seat.

2 Press (⎍) or (⎍) button.

- Nozzle cleaning starts when Cleansing or Bidet button is pressed.
- Nozzle position can be adjusted as desired when Nozzle position control button is used.
- The continuous operation of Cleansing or Bidet function will deplete the supply of warm cleansing water, dropping the water temperature. Therefore, it is recommended that Cleansing or Bidet function be stopped and used again only after the cleansing water gets warm.
- Water temperature and/or seat temperature may be adjusted while cleansing or bidet cleansing is used.

Note

- Do not apply excessive force when pressing a button. Doing so may make the button inoperable.

Oscillating cleansing/Oscillating bidet cleansing

3 Press (⎍) or (⎍) button one more time while cleansing or bidet cleansing is operated so that oscillating function may be activated.

- Nozzle moves back and forth to provide cleansing of wider area.
- Press Cleansing or Bidet button one more time to deactivate the oscillating function.

4 Press (□) button to stop cleansing operation.

- Cleansing lamp or bidet lamp will be turned out. Nozzle moves back and forth three times around the nozzle inlet for self-cleaning.
- During about six (6) seconds of the nozzle cleaning, cleansing or bidet cleansing may not be selected.

Note

- Continued use of cleansing for more than 90 seconds will activate the timer thus stopping the cleansing operation automatically. For continued operation, press Cleansing button again.

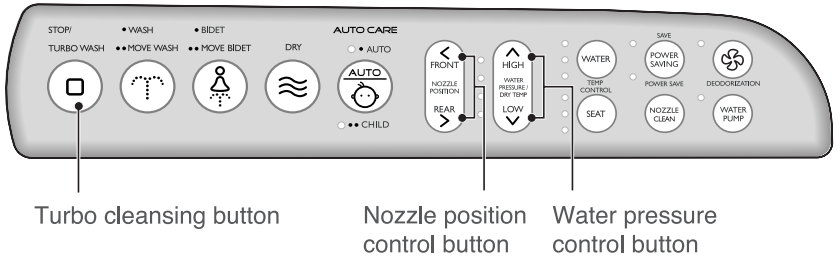
5 Stand up from the seat.

Note

- Water coming out of nozzle right after cleansing operation does not indicate a product failure. It stops automatically in about two minutes after the remaining water in the hose is completely released.
- Small amount of water running out of nozzle from time to time does not indicate a product failure or abnormality. This occurs because of the expansion of water that gets warm in the water tank.
- If the water runs continuously in an unusual manner, contact nearest authorized service center after closing the water valve and disconnecting the power plug from the wall outlet.

(continued)

How to use additional features



Turbo cleansing button | Nozzle position control button | Water pressure control button

Turbo cleansing

Upon sitting on the toilet seat, press ⏻ button in advance.

- Warm cleansing water is sprayed and touches the skin as if it produces a massaging effect while nozzle moves back and forth.
- Warm water is sprayed for one minute with water pressure set to "Hi". You may reset the level of pressure during the turbo cleansing operation.
- If you are ready for bowel movement, press ⏻ button.to stop the turbo operation.

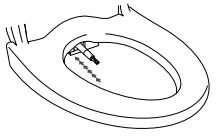
Nozzle position control

Press FRONT / REAR button while cleansing or bidet cleansing is operated.

- Initially nozzle is positioned in center location, and it moves in three steps forward and three steps backward during cleansing or bidet cleansing.

Note

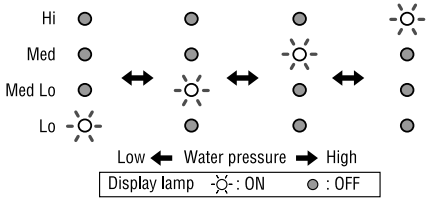
- Nozzle position used for the last time is not automatically saved in the product main unit. Nozzle returns to initial position (center) once cleansing or bidet cleansing operation is complete.
  Therefore, you need to reset the nozzle position as you wish, each time you use the product.



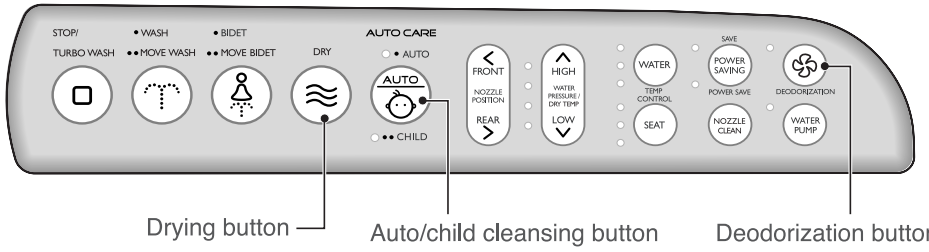
Water pressure control

Press HIGH / LOW button to set the water pressure level.

- 4 levels may be set.
- Unless reset, the pressure level for the last time is automatically called.
- The level of water pressure used in cleansing or bidet cleansing for the last time is saved respectively in the product. A water pressure level displayed in the product while not in use is the one used in cleansing or bidet cleansing operation for the last time.



How to use additional features



Drying button | Auto/child cleansing button | Deodorization button

Auto/child cleansing

AUTO For Auto Cleansing operation, press button only once.

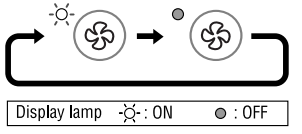
- One minute and 20 seconds of oscillating cleansing followed by two minutes of drying and stops.
- Water temperature and toilet seat temperature saved respectively in the main unit are called automatically.
- Massaging effect is produced while water pressure level changes automatically.

AUTO For Child Cleansing operation, press button twice.

- The button needs to be pressed twice at an interval not exceeding three seconds.
- One minute of oscillating cleansing followed by two minutes of drying and stops.
- During the child cleansing operation, water pressure is set to Lo and temperatures of water, seat and drying air are set to Med automatically.

Deodorization

Press button.



- Deodorization lamp will be ON and deodorization will start.
- Each time is pressed, deodorization is activated and deactivated, and the process will continue.
- When the seat is occupied and sitting sensor is activated, deodorization will start.
- When sitting sensor is deactivated, deodorization continues for about one minute thereafter and stops automatically.
- If deodorization button is pressed while deodorization is operated, deodorization lamp will be OFF, operation stops and the setting is cancelled.

Note

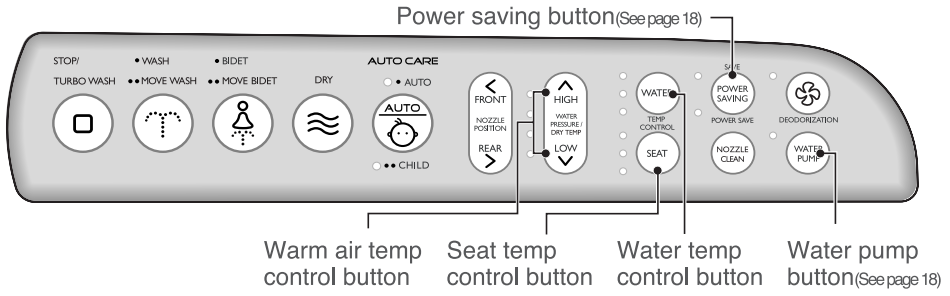
- Deodorization time is 15 minutes as a maximum, which means that the deodorization stops in 15 minutes even if sitting sensor remains activated for more than 15 minutes.
- Deodorization filter is inside the main unit.

Drying

Press button.

- To stop drying operation press ⏻ button.
- Drying operation will stop automatically in five minutes. Press the button again for continued drying operation.
- **Using dry tissue to remove moisture in user's sensitive area before drying operation will help reduce the drying time.**

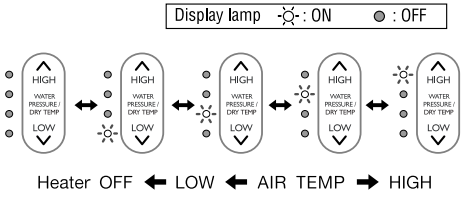
Operation



Air temperature control

Press HIGH / LOW button.

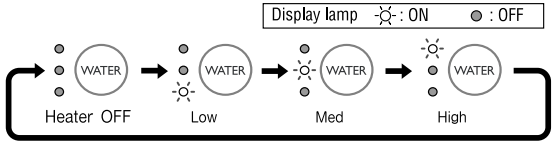
- To set air temperature, press water pressure/air temp HIGH / LOW button.
- Air temperature can be set in four (4) different levels and heater OFF.
- Air temperature can not be set after drying operation is completed. Be sure to set the air temperature right after pressing the dryer button.



Water temperature control

Press WATER button.

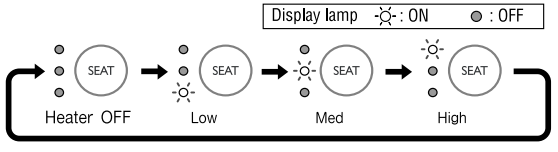
- Water temperature can be set in three different levels and water heater OFF.
- Temperature setting is changed each time the button is pressed.



Seat temperature control

Press SEAT button.

- Seat temperature can be set in three different levels and seat heater OFF.
- Temperature setting is changed each time the button is pressed.



- Feature to prevent low temperature burn.
  This feature automatically lowers the toilet seat temperature with 'HIGH' setting to 'MEDIUM' 10 minutes after the seat was occupied in order to prevent low temperature burn.

Note • Actual seat temperature depends on the ambient temperature.
Keep the seat cover closed to keep the seat warm and conserve energy thus reducing the electric bill.

Power saving mode

Press POWER SAVING button.

- Pressing the button once will set Lo Econo. Pressing the button the second time will set Hi Econo. Pressing the button the third time will cancel the power saving mode.

Lo Econo

- When the product is not in use, water temperature (77℉(25℃)) and seat temperature (82.4℉(28℃)) are set respectively, regardless of the settings. (Electric power is saved through a shorter application time of electric current unless water temperature and seat temperature are set to OFF.)
- When cleansing, bidet cleansing, auto/child cleansing, turbo cleansing or drying is operated, water temperature and seat temperature are raised to the set temperature by applying electricity. (It takes about five (5) minutes to get to the set temperatures.)
- When cleansing, bidet cleansing, auto/child cleansing, turbo cleansing or drying stops, water temperature and seat temperature are again set to 77℉(25℃) and 82.4℉(28℃) respectively, regardless of the settings.

Hi Econo

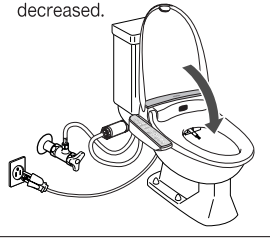
- When the product is not in use, electric power is cut off to water heater and seat heater regardless of the settings (Lo, Me, Hi).
- When cleansing, bidet cleansing, auto/child cleansing, turbo cleansing or drying is operated, water temperature and seat temperature are raised to the set temperature by applying electricity. (It takes about 5 minutes to get to the set temperatures.) All the lamps other than "Econo" lamp are turned on.
- When cleansing, bidet cleansing, auto/child cleansing, turbo cleansing or drying stops, electric power to water heater and seat heater is cut off again.

Other tips for saving electric power

Refer to the following methods for power saving.

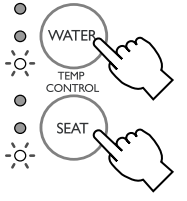
Keep seat cover closed when the product is not in use.

Keeping seat cover closed will help reduce electric power consumption as the heat radiation from the surface of toilet seat is significantly decreased.



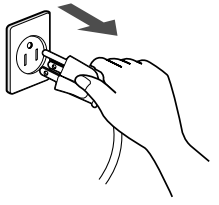
Setting a lower temperature

As long as you do not feel cold, set a lower temperature whenever possible. It will somehow contribute to power saving.



Unplug the power plug

Disconnect the power plug to reduce power consumption when the product is not used over an extended period of time.



Water pump

Press WATER PUMP button.

- When pump lamp is ON, pump will operate to increase water pressure during cleansing, bidet cleansing, auto/child cleansing and turbo cleansing. (If the pressure level is too high, adjust the level using water pressure control button.)
- When pump lamp is OFF, pump will not operate. (Initially the product is set to pump OFF.)
- If the pressure reaches 14.2 psi(1.0 Kgf/cm²), the pressure level will remain the same even if pump operates.
- If the pressure is too high, stop pump operation as it may lead to injury.

How to take care of this product

⚠ WARNING

Disconnect power plug

Disconnect the power plug while cleaning the product.

Failure to do so may cause electric shock or injury.

⚠ CAUTION

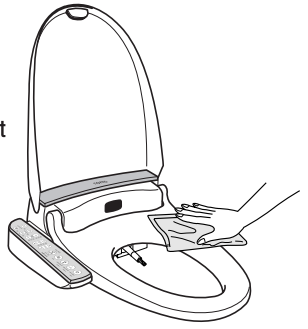
Prohibited

Never use acidic or alkaline toilet detergent, benzene, thinner, cleanser or nylon scrubber when cleaning the product.

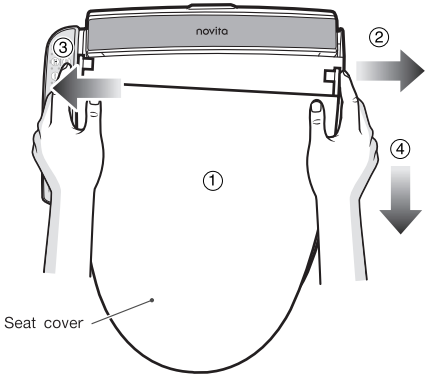
Doing so may damage plastic or metallic parts.

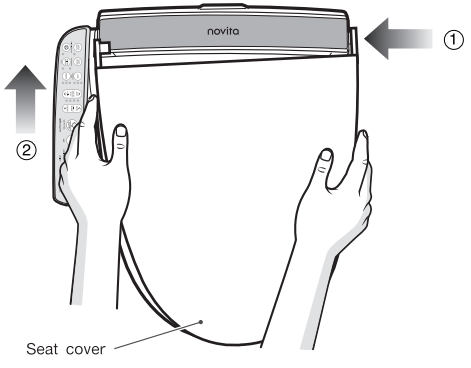
Main unit

1. Disconnect the power plug from wall outlet.
2. Use a soft and wet (with water) cloth only when cleaning the unit.
3. Clean with a soft and wet (with neutral detergent) cloth if the unit is very dirty, and wipe off the detergent with wet (with water) cloth.
   Check the detergent type before using the detergent.
   Seat cover may be separated for cleaning.
4. Connect the power plug to the wall outlet after cleaning is complete.



Separation and reassembly of toilet seat cover





Separation

①Close the cover.
②Stretch out right side shaft of seat cover.
③Pull out left side of seat cover.
④Remove the seat cover.

Reassembly of seat cover

①Insert seat cover to the right side shaft.
②Fit the seat cover into left side of main unit.

Note

- Do not close toilet seat or seat cover forcibly. Doing so may damage the rotation shaft, thus preventing easy opening and closing.

⚠ CAUTION

Close

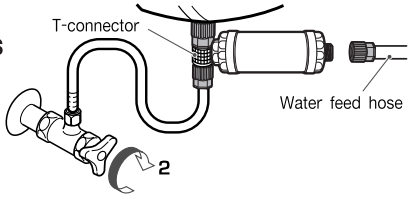
Close water valve before removing the filtering mesh.
Filtering mesh should be installed securely after cleaning to avoid water leakage.

Failure to do so may cause water leakage.

Cleaning filtering net

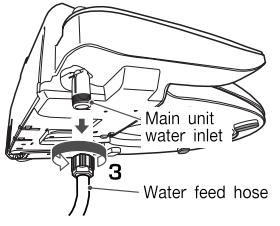
1 Disconnect the power plug from the wall outlet.

2 Close the water feed valve using a blade type screwdriver.
(Use hands if the water feed valve is manual type.)



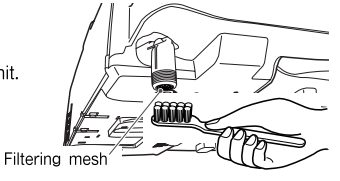
3 Separate the water feed hose from the main unit.

- Be careful so that the floor does not get wet due to water remaining inside the hose.



4 Clean inside the filtering mesh using toothbrush, etc.

- The filtering mesh is built in the water feed inlet of main unit.



5 Connect the water feed hose to the main unit and open the water feed valve.

- Check if or not water leaks.

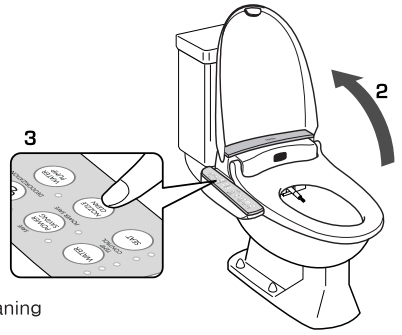
6 Connect the power plug to the wall outlet.

Nozzle cleaning

1 Connect the power plug to wall outlet.

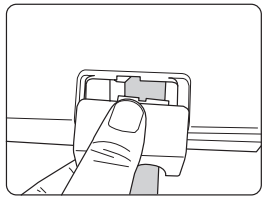
2 Open seat cover and toilet seat.

3 Press (NOZZLE CLEAN) nozzle cleaning button on the main unit control button.

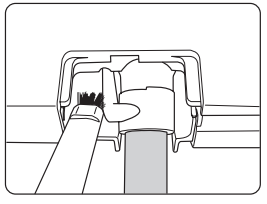


- Nozzle moves back and forth 3 times for self-cleaning and stops moving under fully extended condition.

4 Clean the nozzle while it is fully extended.

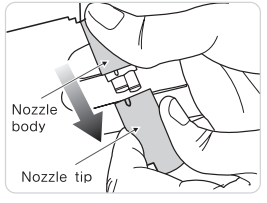


1. Separate the nozzle cleaning cover.

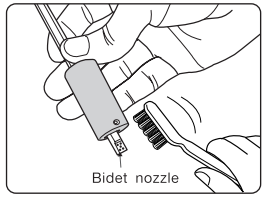


2. Put inside soft sponge, brush, cloth or toothbrush that gets wet with water, and clean. (Note: Be careful so that water may not get into warm air outlet.)

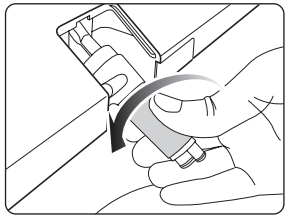
> **Note**
> Be careful so that water may not get into warm air outlet.



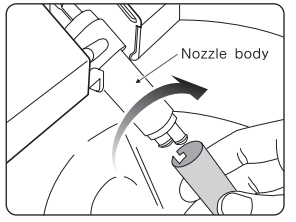
3. Pull nozzle tip from nozzle body while holding the nozzle body and separate the tip.



4. Using a tool inside the separated tip, push bidet nozzle so that it may be cleaned with soft sponge, brush or cloth.

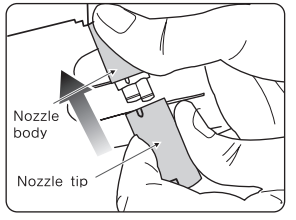


5. Rotate the stainless part of nozzle body counterclockwise and separate the stainless so that it may be cleaned with tooth brush, etc.



6. To put the stainless part back to nozzle body, rotate clockwise the stainless part with the hole facing downward. (Note: Check if the stainless part may not come off easily.)

> **Note**
> check if the stainless part may not come off easily.



7. Put the cleaned nozzle tip back to nozzle body while holding the nozzle body.

> **Note**
> - Do not damage the nozzle hole.
> - Do not apply excessive force to nozzle.
> - Do not separate and clean the nozzle too often. Doing so may cause a problem.
> - Cleansing nozzle tip is assembled a little tightly to secure air-tightness.
> - Be careful so that no bodily injury may occur when separating the nozzle tip for cleaning.

5 Press (□) button on the main unit control panel.

- Nozzle retracts only when (□) button is pressed after cleaning is done.

> **Note**
> - There may be a strange sound when nozzle retracts which does not indicate product failure.

6 Put back the nozzle cleaning cover and close toilet seat and cover slowly.

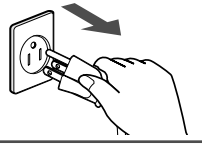
How to prevent freezing and to care for the product when it is not in use over an extended period of time

Remove moisture around the water feed system as freezing may lead to a breakage of the system.
Remove moisture when the product is not in use for an extended period of time. Water may become spoiled causing skin irritation.

Prevention of freezing and long-term care for product

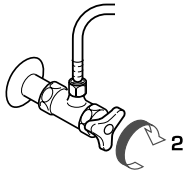
1 **Unplug the power plug.**

- Disconnect the plug from the wall outlet.



2 **Close water valve.**

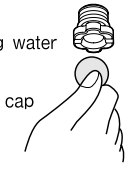
- Use the blade type screwdriver to close the water feed valve. If the valve is manual type, use hands to close the valve.

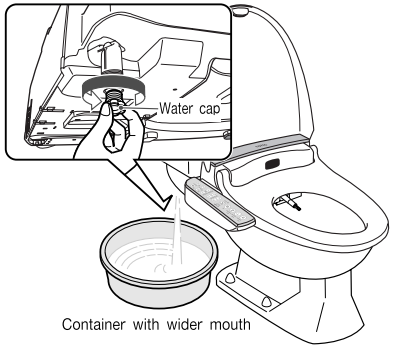


3 **Drain warm water tank.**

- Drain water from water tank after rotating and removing the drain plug while lifting and holding the main unit by using the main unit mounting button. Prepare and use a container of which capacity is not less than 0.52 gallon(2 liters) to keep the drained water.
- Put the drain plug back after draining water completely from the tank.

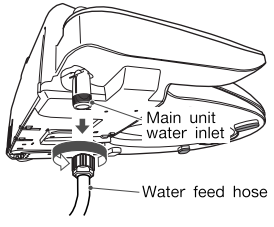
※ Use coin when and if the water tank cap is not opened easily.





4 **Drain water from inside water feed hose.**

- Disconnect the water feed hose from the water feed inlet of main unit and place the end of the hose in a container for holding water.



How to cancel the freezing prevention arrangement and to start to use the product again.

1 **Put the drain plug back to the water tank.**

2 **Connect the water feed hose as is the original condition. (Refer to installation instruction.)**

- Make sure and check before connecting the hose that there is a packing in hose joint.

3 **Open the water feed valve.**

4 **Connect the power plug to the wall outlet.**

- Press Cleansing button to fill the tank with water.

Flickering Warning Lamps

Indicator lamp flickers when there is a problem in the main unit.

Display	Estimated cause and action to be taken	
WATER	● Trouble in water temperature ● Inability to control warm water temperature due to failure of water temperature sensor	Stop using the product and contact a nearest authorized service center for repair service.
SEAT	● Trouble in seat temperature ● Inability to control seat temperature due to failure of seat temperature sensor	
All lamps are blinking	● No water or water shortage in tank. ● Inability to control water level due to malfunctioning water level sensor.	Disconnect the plug and reconnect. Then press cleansing button to fill tank with water. If the lamps still flicker, then disconnect the plug and contact authorized service center.

Display lamp ☼ : ON ● : OFF

Before making a call for service

Check following before requesting service

Status	Cause	How to handle
Product not working.	• Check power outage. • Check if circuit breaker operated. • Check if the plug is plugged in. • Check if power is cut off by the use of power button • Check if all lamps are blinking.	• Wait for power restoration. • Disconnect the plug and reconnect. • Connect the plug. • Press power button if power is cut off • Contact authorized service center.
Cleansing water not coming.	• Check water supply. • Check if water feed valve is closed. • Check if water feed hose is frozen.	• Wait for water back to service. • Open water feed valve. • Make the frozen part warm using hot and wet cloth or make the room warmer to unfreeze. (Do not unfreeze using hot water or hot air. It may cause a breakage of the hose.)
Water pressure too weak.	• Check any foreign material in filtering mesh. • Check if water feed hose is forcibly bent. • Check if nozzle opening is clogged. • Check if water pressure is set to Lo. • Check if tap water pressure is less than 10.1 psi (0.07MPa).	• Clean the mesh. • Straighten the hose. • Clean the nozzle opening. • Set the pressure to Hi. • Water pressure should be between 10.1~108.7 psi (0.07~0.75MPa).
Cleansing water sufficiently warm	• Check if water temperature is set to OFF or Lo. • Check if cleansing is used continuously. • Check if Econo mode is set. • Check if power is cut off By the use of power button.	• Set the temperature to Med or Hi. • Wait at least 5 to 7 minutes after the cleansing function is used by a different user (to make tank water warm.) • Cancel the power saving mode (Water in tank gets warm.) • Press power button.
Seat not sufficiently. warm.	• Check if seat temperature is set to OFF or Lo. • Check if Econo mode is set. • Check if power is cut off by the use of power button.	• Set the seat temperature to Med or Hi. • Wait about 5 minutes after occupying the seat (to make the seat warm.) • Press power button.
Main unit does not sit on the toilet bowl securely.	• Check if mounting bolt is tightened securely.	• Tighten the screw. • Check the main unit installation and correct the problem if any.
Seat or seat cover is not closed smoothly and gently.	• This happens when ambient temperature is high or when the product becomes aged over time.	• If this happens regardless of season, contact authorized service center.
Air temperature too low	• Check if air temperature is set to Lo.	• Set the temperature to Med or Hi.
Drying stops during operation	• Check if five or more minutes have passed since the dryer button was pressed.	• Press dryer button again.

*Time required for water to get warm depends on ambient temperature.

Specifications

	Model	BG90	BG93
	Power Source	AC 120V, 60Hz	
	Rated Power Consumption	650W	
	Effective Tap Water Pressure Range	10.15~108.77 psi (0.07~0.75MPa)	
	Effective Tap Water Temperature Range	Approx. 41°F~95°F(5℃~35℃)	
Warm Water Cleansing Device	Posterior Cleansing(gal/min)	0.13~0.18gal/min (0.5~0.7L)	
	Feminine Cleansing(gal/min)	0.13~0.18gal/min (0.5~0.7L)	
	Water Pressure Control	4 Phases each for Posterior/Feminine Cleansing (Low-Med Low-Medium-High)	
	Temperature Control	3 Phases (Appox. 91.4°F~104°F(33℃~40℃)) of control and Heater-off	
	Nozzle Location Control	6 Positions for each of Posterior and Feminine Cleansing	
	Water Heater	600W	
	Water Tank Capacity	Approx. 0.17gal (0.67L)	
	Safety Device	Thermo s/w(prevention of overheating), Temperature fuse, Water level sensor	
Toilet Seat Heater	Temperature Control	3 Phases (Appox. 91.4°F~102.2°F(33℃~39℃)) of control and Heater-off	
	Toilet Seat Heater	50W	47W
	Safety Device	Temperature fuse	
Dryer Device	Temperature Control	4 Phases (Appox. 95°F~131°F(35℃~55℃)) of control and Heater-off	
	Dryer Heater	290W	
	Air Velocity	Approx. 0.009mi/s (15m/s)	
	Safety Device	Temperature fuse, Bimetal	
Comfort Features	Deodorization	○	
	Water Filter	○	
	Water Pressure Pump	○	
	Power Saving Mode	Lo Econo, Hi Econo	
	Additional safety Devices	Built-in Circuit Breaker	
	Exterior Dimension	19.1in(Width)×21.4in/19.8in(Length)×6.0in(Height) [487mm(Width)×545mm/505mm(Length)×154mm(Height)]	
	Net Weight	Approx. 10.5lb (4.8kg)	
	Length of Power Cord	Approx. 39.3in (1.0m)	

Important Safeguards

When using electrical products, especially when children arre present, basic safety precautions should always be followed, including the following :

READ ALL INSTRUCTIONS BEFORE USING

DANGER - To reduce the risk of electrocution :

1. Always unplug this product immediately after using.
2. Do not use while bathing
3. Do not place or store product where it can fall or be pulled into a tub or sink.
4. Do not place in or drop into water or other liquid.
5. Do not reach for a product that has fallen into water. Unplug immediately.

WARNING - To reduce the risk of burns, electrocution, fire, or injury to persons.

1. A product should never be left unattended when plugged in.
2. Close supervision is necessary when this product is used by, on, or near children or invalids.
3. Use this product only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.
4. Never operate this product if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the product to a service center for examination and repair.
5. Keep the cord away from heated surfaces.
6. Never block the air openings of the product or place it on a soft surface, such as a bed or couch, where the air openings may be blocked. Keep the air openings free of lint, hair, and the like.
7. Never use while sleeping or drowsy.
8. Never drop or insert any object into any opening or hose.
9. Do not use outdoors or operate where aerosol (spray) products are being used or where oxygen is being administrered.
10. Connect this product to a properly grounded outlet only. See Grounding Instruction.
11. Unplug this product before filling. Fill (reservoir) with water only unless otherwise specified by manufacturer. Do not overfill (or specify filling instructions).

SAVE THESE INSTRUCTIONS

MEMO

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